

# Cheonkam Jeong

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## EDUCATION

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### Ph.D. in Linguistics

2018 Fall–2023 Spring (exp.)

*The University of Arizona, Tucson, Arizona, the U.S.*

Department of Linguistics in the College of Social and Behavioral Sciences

Major: Phonology

Minor: Computational Linguistics

Dissertation title (provisional): The effect of cue-specific lexical competitors on hyperarticulation of VOT and F0 contrasts in Korean

Committee: Dr. Andrew Wedel (Chair, Advisor), Dr. Michael Hammond, Dr. Natasha Warner, and Dr. Miquel Simonet

### M.S. in Human Language Technology

2020 Spring–2021 Spring

*The University of Arizona, Tucson, Arizona, the U.S.*

Department of Human Language Technology in the College of Social and Behavioral Sciences

Internship report title: A semantic analysis of FindingFive support tickets using machine learning-based classifiers

Committee: Dr. Michael Hammond (Chair), Dr. Sandiway Fong, and Dr. Andrew Wedel (Advisor)

### M.A. in English Linguistics

2015–2017

*Hankuk(Korea) University of Foreign Studies, Seoul, Republic of Korea*

Department of English Linguistics

Major: Phonology

Thesis title: Noisy Harmonic Grammar Modeling of Flapping in American English Based on a Statistical Analysis

Committee: Dr. Tae-Yeoub Jang (Chair), Dr. Sung-Hoon Hong (Advisor), and Dr. Eunkyung Sung

### Visiting student program

2013 Fall

*University of Leicester, Leicester, the U.K.*

Department of English Literature

The 13th representative scholar sponsored by MIRAE ASSET in Korea

### B.A. in English Linguistics

2010–2015

*Hankuk(Korea) University of Foreign Studies, Seoul, Republic of Korea*

Department of English Linguistics in the College of English

Major: English Linguistics

Minor: Philosophy

## RESEARCH INTERESTS

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Probabilistic Phonology, Laboratory Phonology, Phonology-Phonetics Interface, Computational Phonology, Language Variation and Change, Statistical Modeling, Corpus Linguistics, Speech Recognition and Synthesis, Natural Language Processing

## PUBLICATIONS

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**Jeong, C., & Park, S.** (2017). The Role of Prosody in Discourse: A Case Study of Korean *com*. *Proceedings of 2017 Seoul International Conference on Speech Sciences (SCISS 2017)*, 109-110. Seoul, Republic of Korea.

**Jeong, C., & Hong, S.** (2017). Corpus-based Noisy Harmonic Grammar Modeling of word-medial /t/-flapping in American English. *Studies in Phonetics, Phonology and Morphology*, 23(1), 117-143.

## PRESENTATIONS

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**Jeong, C.** (2022). 2020 NLP internship at FindingFive. *Master of Science in Human Language Technology*. Tucson, Arizona, USA.

**Jeong, C., & Park, S.** (2018). A Corpus-based Study on the Prosodic Features of *com* in Korean. *92nd annual meeting of Linguistic Society of America*. Salt Lake City, Utah, USA.

## PROJECTS

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**Theory of Mind-based Cognitive Architecture for Teams (ToMCAT) Project** January 2022 – Present  
**Supervisor:** Dr. Adarsh Pyarelal in School of Information at the University of Arizona

**Job description:** Working for a speech team to improve the model performance considering acoustic features of speech; specifically, I am working on building unsupervised models for detecting vocal entrainment among participants engaged in cooperative tasks

**Subtlex-KR, a Korean Subtitle Corpus** Fall 2019 – Present

**Collaborator:** Dr. Kevin Tang in the Department for English Language and Linguistics at Heinrich-Heine-Universität Düsseldorf

**Job description:** Building a Korean subtitle corpus, considering both word and morpheme levels; specifically, I created morpheme-analyzed subtitle files using KonPLY (a Korean NLP toolkit in Python), currently working on alignments using tgt (a textgrid toolkit in Python), and will investigate probabilistic reduction considering informativity

## TECHNICAL SKILLS

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**Human languages** Korean (*native*), English (*advanced*), Japanese (*intermediate*), French (*basic*)

**Programming languages** Python, R, Perl, Praat

**Natural Language Processing tools** Tensorflow, Keras, Scikit-learn, PyTorch, Pandas, Numpy, spaCy, NLTK, KonLPy

**Speech Recognition Tools** Kaldi, OpenSmile

**Statistical Tools** R, SPSS, Excel

**Others** Mechanical Turk, FindingFive, git

## CERTIFICATES

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**Computational Social Sciences** 2021-2022 Spring(exp.)

*The University of Arizona, Tucson, Arizona, the U.S.*

College of Social and Behavioral Sciences

**Certificate of Essay Writing Education** 2015

*Hankuk(Korea) University of Foreign Studies, Seoul, Republic of Korea*

Department of Philosophy

## EXPERIENCES

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**Researcher Supporter** March 2022–Present

**Company Name:** FindingFive, New Jersey, the U.S.

**Executive Director:** Dr. Ting Qian

**Job description:** Devising ideas about how to get more researchers to use the platform, and making content relevant to them

### Internship

**Natural Language Processing (NLP) Intern** June–August 2020

**Company Name:** FindingFive, New Jersey, the U.S.

**Executive Director:** Dr. Ting Qian

**Job description:** Examined the distribution of the customer support tickets and classified them using machine learning-based classifiers including both non-Neural Network-based models like Support Vector Machine and Neural Network-based models like Convolutional Neural Networks in order to provide better customer services

### **Teaching/Research Experience**

#### *Instructor*

- LING 341: Language Development 2021 Winter
- LING 314: Phonetics 2020 Fall, 2020 Spring, 2019 Fall

#### *Teaching Associate/Assistant*

- SBS 200: Introduction to Statistics for the Social Sciences 2021 Fall, 2022 Spring
- LING 315: Introduction to Phonology 2019 Spring
- LING 341: Language Development 2019 Spring
- LING 150: Language in the World 2018 Fall

#### *Research Associate*

2021 Spring (but still engaged in this project)

**Laboratory Name:** Douglass Phonetics Laboratory of the University of Arizona, Tucson, the U.S.

**Supervisor:** Dr. Natasha Warner in the Department of Linguistics at the University of Arizona

**Job description:** Designed an online experiment using FindingFive and conducted it through Amazon Mechanical Turk, through which a large number of participants were able to participate in the experiment though under the covid-19 situation

### SERVICES

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#### **Paper Review**

- Journal of Phonetics - Co-reviewer of PHONETICS-D-21-00128 with Dr. Andrew Wedel February 2022
- Arizona Linguistics Circle 15 - Phonology Coyote Paper Reviewer January 2022
- Arizona Linguistics Circle 15 - Phonetics & Corpus Linguistics Proceedings Reviewer October 2021
- Arizona Linguistics Circle 14 - Phonology & Phonetics Coyote Paper Reviewer January 2021
- Arizona Linguistics Circle 14 - Phonology & Phonetics Proceedings Reviewer October 2020
- Arizona Linguistics Circle 13 - Phonology Proceedings Reviewer October 2019

#### **Leadership and Communication**

- Arizona Linguistics Circle 15 - Communication Coordinator October 2021
- Arizona Linguistics Circle 13 - Phonetics Section Chair October 2019
- Education Supporter at Seoul Urban Science Technical High School in Seoul, Republic of Korea April 2013–June 2013